Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ TP: \_\_\_\_\_\_\_\_

CW#101: Q4 CLICKERS Review

Geometry

|  |  |
| --- | --- |
| 1) Cashiers at Chipotle earn a total of $306 each week. If they are late to work more than once in a week, 20% of their pay is deducted. What would be the take-home pay of a Chipotle employee who is late two times in one week?   1. $61.20 2. $244.80 3. $286.00 4. $306.00 5. $720 | 2) Simplify:   1. 24 2. 6 3. Undefined |
| 3) A cake is sitting in a circular pan that measures 12 inches across. The cake has 8 slices cut at equal angles through the center of the cake. What is the approximate length of the exposed edge of the pan once one slice has been removed?   1. 2 inches 2. 5 inches 3. 9 inches 4. 14 inches 5. 57 inches | 4) The expression -is equivalent to which of the following?   1. 100 2. 280 3. 300 4. -300 5. Undefined |
| 5) A certain bank requires a four-number code. Each number must fall between 0 – 20 and may only be used once in the combination. How many different four-number combinations can be made?   1. 80 2. 116,280 3. 143,640 4. 160,000 5. 640,000 | 6) Which of the following equations passes through (3,2) and is perpendicular to?       5. None of the above |
| 7) What is the tangent of B in the triangle below?  A  8  10  C  B | 8) The volume of a cube is 64 cm3. Which of the following is the area of one face of the cube?   1. 4 cm2 2. 16 cm2 3. 8 cm2 4. 64 cm2 5. 4,096 cm2 |
| 9) Dee is going to cover her front porch with bricks and she plans to put the bricks next to each other so there is no space in between them. The bricks are rectangular prisms that measure 2 inches long by 8 inches wide by 10 inches tall. If Dee’s porch is a rectangle that measures 10 feet by 2 feet, what is the minimum number of bricks that she will need to fully cover her porch?   1. 20 bricks 2. 36 bricks 3. 80 bricks 4. 144 bricks 5. 576 bricks | 10) As shown in the figure below, triangle ABC is drawn so that side AB is on line XY. If mYBC = 58 and mXAC = 162, what is the measure of ABC?  Y  X  C  B  A   1. 18 B. 40 C. 122 D. 162 E. 180 |
| 11) Jason is at Best Buy and purchases a CD that costs $15.99, a pair of headphones that cost $49.95, and a candy bar that costs $4.45. If he spends more than $70 before tax, he gets a 18% discount. What is the total cost of his purchases?   1. $12.67 2. $57.72 3. $70.39 4. $83.06 5. $128.11 | 12) If a > 0 and b < 0, which of the following statements is true?   1. a + b > a 2. a + b < a 3. a + b > 0 4. a + b < 0 5. a + b < b |
| 13) A square and a semicircular region have the same perimeter. If the length of the radius of the semicircular region is 16 cm, what is the length of one side of the square in cm?   1. 8 2. 2 + 2 3. 4 + 8 4. 16 + 32 5. 32 + 16 | 14) What are the solutions to the following: ?  A. -2  B. 2  C. -2 and 2  D. 4 and -16  E. -4 and 16 |
| 15) A chemist adjusted the ideal gas law such that the equation read , where *P* is pressure, *V* is volume, *n* is number of moles, *R* is the gas law constant, and *T* is the temperature. Which of the following solves for R?  A.  B.  C.  D.  E. | 16) Josette’s T-shirt Shop sells custom t-shirts. Customers must choose one of three possible colors, whether they want long or short sleeves, and may choose to add any of three different quotations to the shirt or no quotation at all. Shirts are offered in small, medium, large, and XL. Which of the following gives the number of different possible combinations of shirts?   1. 3 + 2 + 3 + 4 2. 3 + 2 + 4 + 4 |
| 17) A child’s bicycle wheel completes exactly five revolutions when it travels 150 cm. The wheel has a decoration on it that covers exactly half of the inner part of the wheel, as shown in the picture below. What is the area, in square centimeters, of the decoration?   1. 15 2. 225 | 18) The box for a 16 inch pizza (16 inches in diameter) is a square that leaves room for one inch on each side. If an advertisement is printed on the bottom of the box, what is the area that can be seen before the pizza is eaten?   1. 123 in2 2. 256 in2 3. 299 in2 4. 324 in2 5. 804 in2 |
| 19) A park wants to put a fence around a baseball field in the shape below. Each straight side of the fence is 80 feet long, and the rounded side is an arc that measures 90. How many feet of fencing does the park need to purchase?     1. 20 + 160 2. 4 + 160 3. 160 + 20 4. 80 + 160 5. 160 + 40 | 20) The perimeter of a rectangle is 72 inches. The width is unknown. The length is eight inches more than the width. Find the area of the rectangle.  A. 14  B. 28  C. 32  D. 128  E. 392 |